

Claims

1. (Canceled) A plumbing cable guide,

the cable guide comprised of a main body and a face plate, the main body in the shape of a flattened cylinder, the face plate in the shape of a flattened cylinder,

the face plate attached removably to the main body by means of a lock ring, the face plate and main body each possessing a cable guide hole, the face plate attached to the main body in such a manner that the cable guide hole of the face plate and the cable guide hole of the main body lie over each other,

the face plate capable of rotating around the central hole of the main body, the face plate possessing a control handle fixedly attached to the circumference of the face plate,

The face plate possessing a plurality of piston screw access holes, the piston screw access holes in the shape of an elongated oval, the main axis of the oval shape aligned with the radius of the circular face plate,

the main body possessing a plurality of piston holes, each of the piston holes cut through the main body from circumference to the cable guide hole of the main body, each piston hole containing a piston inserted removably into the piston hole,

each piston possessing a piston screw removably attached to the piston, each piston screw positioned such that it protrudes through a cam screw hole cut in the flat surface of the main body, each cam screw hole connecting the surface of the main body with a piston hole, each cam screw hole in the shape of an elongated oval, the long axis of the oval shape of the cam screw hole perpendicular to the radius of the main body,

The piston screw holes of the face plate and the cam screw holes of the main body positioned such that one piston screw hole is placed over one cam screw hole when the face plate and the main body are connected to each other, the piston screw for each piston protruding through the cam screw hole and through the corresponding piston screw hole,

each piston capable of being rotated around its long axis within the piston hole by means of grasping a control handle fixedly attached to the face plate circumference and turning the face plate around the guide hole until the piston screws reach the end of the cam screw holes, the motion of the piston screws forcing each piston to turn around its long axis within the piston hole,

each piston possessing a central end near the cable guide hole, the central end of each piston possessing cams fixedly attached to the piston, the cams configured such that they will grasp a standard plumbers snake cable, the direction of motion of the plumbers snake cable through the cable guide hole controlled by the orientation of the cams on each piston, the orientation of the

cams on each piston controlled by the rotational orientation of the piston, an adjustment screw handle inserted through the circumference of the main body and connected removably to a piston, the adjustment screw handle threaded in such a manner that rotating the adjustment screw handle moves the piston connected to the adjustment screw handle away from the circumference of the main body and towards the cable guide hole of the main body,

the plumbing cable guide used by means of inserting a plumbers snake cable through the cable guide hole of the face plate and through the cable guide hole of the main body, grasping the adjustment screw handle and rotating it until the cam ends of the pistons encounter the surface of the plumbers snake cable, grasping the control handle and rotating the face plate until the cams are set to allow movement of the plumbers snake cable in the desired direction through the plumbing cable guide.

2. (New) A plumbing cable guide,

the cable guide comprised of a main body and a face plate, the main body in the shape of a flattened cylinder, the face plate in the shape of a flattened cylinder,

the face plate attached removably to the main body by means of a lock ring, the face plate and main body each possessing a cable guide hole, the face

plate attached to the main body in such a manner that the cable guide hole of the face plate and the cable guide hole of the main body lie over each other,

the face plate capable of rotating around the central hole of the main body, the face plate possessing a control handle fixedly attached to the circumference of the face plate,

The face plate possessing a plurality of piston screw access holes, the piston screw access holes in the shape of an elongated oval, the main axis of the oval shape aligned with the radius of the circular face plate,

the main body possessing a plurality of piston holes, each of the piston holes cut through the main body from circumference to the cable guide hole of the main body, each piston hole containing a piston inserted removably into the piston hole,

each piston possessing a piston screw removably attached to the piston, each piston screw positioned such that it protrudes through a cam screw hole cut in the flat surface of the main body, each cam screw hole connecting the surface of the main body with a piston hole, each cam screw hole in the shape of an elongated oval, the long axis of the oval shape of the cam screw hole perpendicular to the radius of the main body,

The piston screw holes of the face plate and the cam screw holes of the main body positioned such that one piston screw hole is placed over one cam screw hole when the face plate and the main body are connected to each other,

the piston screw for each piston protruding through the cam screw hole and through the corresponding piston screw hole,

each piston capable of being rotated around its long axis within the piston hole by means of grasping a control handle fixedly attached to the face plate circumference and turning the face plate around the guide hole until the piston screws reach the end of the cam screw holes, the motion of the piston screws forcing each piston to turn around its long axis within the piston hole,

each piston possessing a central end near the cable guide hole, the central end of each piston possessing cams fixedly attached to the piston, the cams configured such that they will grasp a standard plumbers snake cable, the direction of motion of the plumbers snake cable through the cable guide hole controlled by the orientation of the cams on each piston, the orientation of the cams on each piston controlled by the rotational orientation of the piston,

an adjustment screw handle inserted through the circumference of the main body and connected removably to a piston, the adjustment screw handle threaded in such a manner that rotating the adjustment screw handle moves the piston connected to the adjustment screw handle away from the circumference of the main body and towards the cable guide hole of the main body,

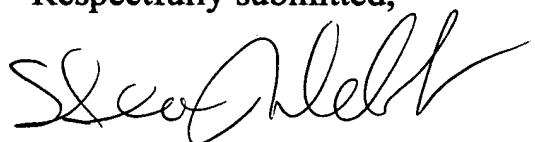
the main body possessing a plurality of grease fittings that connect the plurality of piston holes to the outside surface of the main body to permit

lubrication of the plurality of pistons without disassembly of the plumbing cable guide,

the face plate and main body comprised of wrought aluminum, the wrought aluminum selected to confer lighter weight to the plumbing cable guide and to hold the pistons more firmly than if the plumbing cable guide were comprised of cast steel,

the plumbing cable guide used by means of inserting a plumbers snake cable through the cable guide hole of the face plate and through the cable guide hole of the main body, grasping the adjustment screw handle and rotating it until the cam ends of the pistons encounter the surface of the plumbers snake cable, grasping the control handle and rotating the face plate until the cams are set to allow movement of the plumbers snake cable in the desired direction through the plumbing cable guide.

Respectfully submitted,



Law Offices of Steven W. Webb
Steven W. Webb
Reg. No. 43,246

Law Offices of Steven W. Webb
655 Second Street
Encinitas, CA 92024
(760)635-7530